

CANNON
RADIO CONTROL

2756 N. GREEN VALLEY PKWY STE. 405

HENDERSON, NV. 89014

SYSTEMS

TEL NO. (702) 896-7203 FAX NO. (702) 896-7206

1996

CATALOG

OF

THE

WORLD'S

SMALLEST

RADIO CONTROL SYSTEMS

TRANSMITTERS, RECEIVERS,

SERVOS, BATTERIES,

AND ACCESSORIES



BUILT & SERVICED IN THE U.S.A.

BUY AMERICAN !



2756 N. GREEN VALLEY PKWY STE. 405
HENDERSON, NV 89014

**WORLD'S LEADING MANUFACTURER
OF
SUPERLIGHT DIGITAL R/C SYSTEMS**

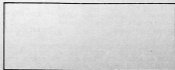


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HOW TO ORDER

CANNON RADIO CONTROL EQUIPMENT

ORDER DESCRIPTION Please Specify, as applicable, on all orders: Full Description - Model No., Freq., No. of Channels desired, Tx Type & Stick Mode, Dual Ratez, Mixer Type, Special Options, R/C Plug Type and Color, Servo Type & Qty, Battery Size, Type, Plug Type and Color (by Part Number), Retail Price and Special Price, if applicable. On other items: Full Description, Part No., Correct Price, etc., Sales Tax, Ship Costs.

PLEASE USE PART NUMBERS TO IDENTIFY EVERY ITEM

SYSTEM PRICING R/C System, Transmitter and Receiver prices are based on 72 Mhz Frequencies, 2-Axis Tx Sticks, and with types and quantities of Servos listed. Compute variations from regular Systems or File packs as follows:

1. Add \$20.00 to System prices, or \$15.00 to File Packs and separate Tx or Rx for 50 or 53 Mhz. Add \$17.50 for Single (J-Axis) Tx Stick.

2. If equipment ordered varies widely from the standard catalog offering, or if more than one item is deleted from a standard package, total price will be based on accumulated prices of individual items, NOT A DEDUCTION FOR ITEMS OMITTED.

SPECIAL ORDERS When making a SPECIAL ORDER be very precise as to exact requirements. Verify Special pricing on your order. A 50% NON-REFUNDABLE DEPOSIT is required with SPECIAL ORDERS. Note that all Cannon equipment is built to your specifications.

WARRANTY AND REPAIR SERVICE Please note that most all items of equipment listed herein are warranted by CANNON R/C SYSTEMS. This includes CANNON equipment sold under the Charlie's Label. Equipment needing warranty service MUST be returned to CANNON R/C SYSTEMS. A list of U.S., Canada and Mexico Service Centers is available with a S.A.S.E. envelope. These Service Centers DO NOT handle CANNON Warranties but you may use them for any other repairs if Factory Service is not convenient. Refer to the specific equipment warranty with your purchase. When sending Units for repair include Return Postage.

SHIPPING AND HANDLING (Contiguous U.S. Only - Additional Cost for other areas). Radio Control Units - Add following amounts to order Systems - \$11.95, *File Packs - \$9.15, Transmitters - \$8.25, Receiver, Servos, or Batteries, \$4.00. Small Items or Parts - \$3.50, Schematics - \$4.00. *When Your Tx is sent for R/C Tuning, use Ship Cost of \$12.95.

DEALER ORDERS All items from CANNON R/C are priced F.O.B. Henderson, NV. Shipping and Handling will be added to all Dealer Net Prices. S & H as well as Equipment Costs subject to change without notice. If changes occur, you will be advised at time of order. Equipment prices are also subject to change costs have increased.

TELEPHONE ORDERS Will be accepted to expedite scheduling and delivery. However, detailed written confirmation of order is requested. Otherwise we will accept no responsibility for incorrect or late shipments due to verbal misunderstandings.

PAYMENT TERMS Money Order or Cashier's Check with order will expedite shipment. All payments are required in advance. Personal or Business Checks are acceptable: allow three (3) weeks for checks to clear before shipment. Exception: Customers with whom we have had satisfactory prior experience - NO DELAY.

C.O.D. Orders - Accepted only with 20% advance deposit. C.O.D. Fee and Shipping/Handling Extra.

Open Accounts - Orders will be shipped Open Account to those who have sent the application and have been advised of Open Account Status.

SPECIAL ORDERS These require a 50% NON-REFUNDABLE ADVANCE DEPOSIT regardless of Open Account or Customer Status. MC or VISA accepted on orders of \$25.00 or more. (Not accepted on Repairs). Personal Check O.K., but may be delayed for clearance. COD's O.K. with 20% Advance Deposit. COD Fees extra.

METHOD OF DELIVERY For R/C Systems, File Packs and R/C Components shipment is via UPS Ground unless otherwise specified. Sometimes small items may be shipped first class or parcel post instead of UPS. (Extra charge will be made for Parcel Post, Air or UPS Next Day or Second Day Air). Larger or heavier items will be sent UPS Ground.

ORDER CANCELLATION OR RETURN Any items returned for exchange or credit will be subject to a 25% restocking charge. Charges are for checking and/or repackaging equipment. Items will not be accepted for return without prior written approval in advance. Letter must contain complete and specific reasons for return request. Customer must pay shipping costs both ways for returned or exchanged items. Special Order items, including Systems and File Packs, will not be credited or exchanged.

SCHEMATICS Available for all CANNON R/C Systems ONLY at \$6.00, plus \$4.00 S & H in the USA. Shipping to Canada \$5.00. Shipping to other Countries is \$7.00, plus cost of the Schematics. No COD's. Specify in detail: Equipment Type & Year, exact Models, No. of Channels, Frequency, Tx & Rx type, Servo type, Plug type and Plug color, Battery type & size. Internal equipment photos help identify unit.

PRO-FORMA INVOICES INVOICES THUS MARKED INDICATE THAT ADVANCE PAYMENT FOR MATERIAL IS REQUIRED BEFORE SHIPMENT WILL BE MADE.



MASTER CARD OR VISA ACCEPTED ON ORDERS OF \$25.00 OR MORE. NO COD'S WITHOUT 20% ADVANCE DEPOSIT. COD FEES ARE EXTRA. REMEMBER THAT SHIPPING COSTS DECREASE AS ADDITIONAL ITEMS ARE PURCHASED. PRICES SHOWN HEREIN EFFECTIVE IMMEDIATELY UPON RECEIPT. PRICES SUBJECT TO CHANGE WITHOUT NOTICE. ADD YOUR LOCAL SALES TAX IN NEVADA.



NEW MICRO-ELITE & STAR-LITE R/C SYSTEMS FOR 1996

After months of design effort and exhaustive flight testing, CANNON now offers these three new Narrow-Band R/C Systems. They feature excellent selectivity to reject undesired interference from other frequencies. Each is designed to operate on the new 20 KHz channel spacing. Both Systems utilize AM (Amplitude-Modulation) modet, not on FM. Units are not warranted against 2nd or 3rd order I.M. or Image Frequencies.

MICRO-ELITE SYSTEMS

The New 1996 NARROW-BAND MICRO-ELITE Units (formerly Super-Micro) are externally identical to our STANDARD 810 and 910 Series SUPER-MICRO Systems which have proven so successful and outstanding over the years. Always known as the World's Smallest and Lightest R/C Systems, the new ME920R MICRO-ELITE Receiver holds the distinction of being the only TRULY Sub-Miniature NARROW-BAND Equipment available. (Except New ULTRA-MICRO, Page 10)

New Model 910 Transmitter standard features now include Servo Reversing on All Channels, Light Touch Control Sticks, Servo-End Point Adjustments and, as options, Dual Rate Controls and 2 different Two-Channel Mixers. Transmitter, with Gold Sticker, meets all AMA & FCC requirements for today's Narrow Band operation.

The New Model ME920RS Narrow Band Receiver is identical in size and weight to our SUPER-MICRO offered previously. Now it incorporates a Balanced-Mixer Front End for added noise rejection, plus new 1 F filter circuitry to insure optimum selectivity and desired narrow band operation. In addition, the new receiver offers operation up to six channels.

In order to differentiate between the older 810 Micros & new ME920RS MICRO-ELITE Receivers & Servos, New Micro cables & servo plugs are color-coded. Older units have BLACK Micro plugs. Narrow Band Models have RED plugs. There has been a receiver-servo wiring change in the newer Micro plugs. Old CE-9 Servos with BLACK Micro Plugs and units with RED Micro Plugs are not interchangeable because of plug wiring differences. Servo mechanics and electronics are similar. Plug colors are for identification: be sure and specify when ordering which type is desired. There has been NO WIRING CHANGE in units using Dean's plugs. NOTE: ME920RS MICRO-ELITE Receivers are available on Special Order with BLACK Micro Plugs or DEAN's for interchangeability with older units. Specify plug type and color.

NEWEST MICRO-ELITE EQUIPMENT WORLD'S SMALLEST R/C SYSTEMS

CANNON presents the 1996 NARROW BAND MICRO-ELITE System, by far the smallest and lightest R/C System in production today and the ONLY Micro System with NARROW BAND capability! The photos show that both the RECEIVER and CE-9D SERVOS are considerably smaller than a standard U.S. Commemorative Stamp, emphasizing the importance of SIZE and WEIGHT in aircraft such as those for Electric power and small models.



FIGURE 1. MICRO-ELITE NARROW-BAND R/C SYSTEM

New receiver battery packs are offered with the 910/920 Series in four sizes: 50 mah, 75 mah, 110 mah and 270 mah. These come in either square or in-line packs, selectable for your specific installation. Weights are decreased by use of shrink wrap battery pack covering instead of hard plastic. An added standard feature is an External Charge Receptacle and a Charge Reducer integrated with the ON-OFF switch, providing ease of external charging with virtually no weight increase. 50 mah packs are provided with a special Charge Reducer to save weight.

File Pack weights are shown on page 7. Outline drawings are included on pages 5 & 8.

STAR-LITE SYSTEMS

This "NEW STAR" in the R/C Sky offers the same Model 910 Transmitter supplied with the MICRO-ELITE System, and with the same options.

Performance of the STAR-LITE Receiver is comparable with that of the MICRO, but in a slightly larger size. Cabled Dean's plugs with CANNON wiring are standard with this system; no other plug types are offered. Seven-channel capability is available in the STAR-LITE Receiver.

A choice of servos enables you to fit this system to ANY size aircraft you wish to fly. CE-9D Micro Servos together with this 1.0 oz. STAR receiver permit operation in the smallest aircraft; the new CE-15 STAR Servos at only 0.9 ounce provide power and speed for up to 80 powered aircraft.

With the above equipment we offer receiver packs in 50 mah, 75 mah, 110 mah, and 270 mah battery sizes. These cover all practical needs for both ELITE and STAR equipment. Battery choice is yours.

The following pages cover detailed specs on everything mentioned above, plus accessories for same, and items that are still available to interface with older equipment. SHIPPING/HANDLING COSTS are shown on page 2.

DETAILED DESCRIPTION OF SYSTEMS

Reduced sizes and weights of both the MICRO-ELITE Receiver and companion Servos make this system possible. It is light enough for multi-channel CO2 airplanes, indoor aircraft, Schooled Scale, small & large electric planes miniature Old Timers, Rocketry and Free-Flight return, yet has servos powerful enough for gliders and aircraft using engines through 40 cubic inch displacement! To prove this point, a new World Speed Record was set using the standard SUPER-MICRO system in a Quarter-Midget pylon racer. This Record still stands!

Each complete MICRO-ELITE System consists of a Transmitter, Tx Antenna, Frequency Plug, Dual Charger, Discrete Receiver, Rx Nicad Battery of your choice, specified quantity of CE-9D Servos, Servo Mounting Plates and Aileron Tray (4 and 5 CH. only). Equipment is available in 2 thru 5 channels. Any System may be converted up to 5 channels at factory for basic difference in system costs, plus \$50.00 for labor. Extra servos must be purchased separately. Free, conversion extra.

Unless customer specifies otherwise, the standard Rx Nicad Pack supplied with 2 or 3 channel units is 110 mah, 270 mah for 4 or 5 channels. Either pack available upon request, or lighter 50 or 75 mah packs can be supplied. All batteries available at same price, but specify size and plug type.

DELUXE MICRO-ELITE SYSTEM PRICES

ITEM	PART NUMBER	PRICE
2 CH, 2 SERVOS	ME920-22	\$269.95
3 CH, 3 SERVOS	ME920-33	\$319.95
4 CH, 4 SERVOS	ME920-44	\$369.95
5 CH, 4 SERVOS	ME920-54	\$379.95

Prices are based on Standard 72 Mhz only. Refer to Available Frequencies page 8. Freq. Pricing, Shipping Costs and Ordering information on page 2.

System prices are based on a Standard Transmitter (See page 4). For Dual Rate Controls (Aileron & Elevator) add \$20.00 to prices shown above. For A/E Mixer Option add \$39.95, A/R Mixer add \$49.95.

PLEASE UNDERSTAND THAT ALL OF OUR EQUIPMENT IS BUILT TO ORDER, SO REASONABLE TIME MUST BE ALLOWED FOR PRODUCTION AND SHIPMENT. BECAUSE OF THE WIDE VARIETY AND OPTIONS OF UNITS WE PRODUCE, INCLUDING MODEL TYPES, FREQUENCIES, NUMBER OF CHANNELS, BATTERY SELECTIONS, ETC. IT IS IMPOSSIBLE TO STOCKPILE EQUIPMENT WHICH MIGHT MEET YOUR DESIRES.

TRANSMITTER, MODEL 910

This plastic cased transmitter is extremely rugged, made of high-impact ABS plastic with stylized design. Small size and light weight make it very convenient to handle. In many years of production we have NEVER seen a Tx case which required replacement because of damage.

Case size is 1-11/16 x 4-13/16 x 5-3/8"; total transmitter weight, with antenna, is only 1-1/4 lbs, including 600 mah 9.6V nickel batteries. Transmitter control sticks are the new Dusham "Soft-Touch" controls, reducing operational effort required by 50%. These are Open Gimbals designed to give optimum "feel" and best control response.

Incorporating an RF output meter, 600 mah nicad batteries, a 48" 9-Section collapsible antenna, and other features described herein, this unit becomes an outstanding, yet powerful, small transmitter which is very light, perfectly balanced and preferred by hundreds of R/C owners. A new "Max-Powr" RF section provides a nominal RF output just below the legal 750 mW maximum on 72 Mhz prescribed by the FCC. NO OTHER TRANSMITTER OFFERS HIGHER POWER OUTPUT!

Basic Standard Transmitter controls are as follows: The 2-channel model employs one 2-axis RH centering control stick for Rudder & Elevator, no LH control stick.

On 3-channel models a 2-axis RH centering stick controls Rudder & Elevator, a LH proportional lever, non-centering, is available for Motor Control, or other desired proportional function.

Mode I control stick arrangements are no longer available on 2 and 3 channel models. Transmitter controls described above are Mode 2. Order a 4-channel or 5-channel transmitter if Mode I controls are required. Same

price, Mode I or Mode II. Specify when ordering.

Four and five channel models utilize two full sticks for four proportional channels. The fifth channel (not proportional) is switch-controlled to give up-down operation of Landing Gear, Spoilers or another function.

All Transmitters on Mode 2 have the RH horizontal centering stick to operate Aileron (or Rudder) and the RH vertical centering stick to control Elevator, whereas the LH stick provides horizontal centering control of Rudder and vertical ratcheted control of MOTOR.

Mode 1 type is similar except ratcheted vertical MOTOR Control is on the RIGHT Stick and centering elevator is on the LEFT Stick.

As an option, a THREE-AXIS Single-Stick Model is available, but only on four and five channel Units. The Three-Axis Stick is on the RH side and has controls for Aileron, Elevator and Rudder (with Control Knob on end of Stick). The fourth channel (MOTOR) has a ratcheted vertical stick, with UP, on the LH for Motor control. Fifth channel, when included, gives UP-DOWN Switch control (not proportional) for Landing Gear, Spoilers - or other function. Extra cost for the SINGLE STICK (3-AXIS) Model is \$17.50. For the Left Handed pilot who wants to fly Single Stick, CANNON R/C can supply the transmitter with a 3-Axis Control Stick on the left side and throttle on the right. Special Order cost is \$20.00.

Added Standard features on the Model 910 Transmitter include Servo Reversing on all channels and Servo End Point Adjustments which permit the operator to tailor individual servo throws to obtain desired control action. Example: Access to the most needed servo adjustment (Motor Control) is available through an opening in the rear of the transmitter case. A special tool is furnished to make this adjustment. All other channel servo throws may be adjusted in like manner after removal of transmitter back.

Transmitter Charging Jack on front permits battery checking. Matching plug (for earlier Models) is on the CANNON Model 12CC-910 Charger. Newest Model 32CC-910 Charger for 1996 Models has one concentric Tx plug and one Rx audio charge plug.

Optional transmitter controls, available at extra cost, include Dual Rate switches for the first two channels - Aileron and Elevator on 4 & 5 channel Models. Rudder and Elevator on 2 & 3 channel Models. Selectable use of these switches gives full or partial travel of either or both of these two related servos. Pots internal to the transmitter permit operator to make Dual Rate adjustments to obtain desired throw.

Another option is a Mixer Circuit, Switch Selectable, for mix of Aileron and Elevator channels (A/E Mixer) is any proportions desired. This circuit offers various control mix ratios with control preference on selected function. An Aileron & Rudder Mixer, (A/R Mixer), or other combination, is available on Special Orders (\$49.95 for A/R Mixer).

MODEL 910 TRANSMITTER PRICES

910T (2)	2 CH - \$142.50	910T (3)	3 CH - \$155.95
910T (4)	4 CH - \$174.95	910T (5)	5 CH - \$184.95
	Add \$17.50 for Single Stick (3 Axis, 4 & 5 CH only)		

Prices shown are for Standard 72 Mhz frequencies only. Add \$15.00 to Tx cost for other frequency bands. See list of Available Frequencies, page 8.

OPTIONAL TRANSMITTER EXTRAS

DUAL RATE SWITCHES - (Aileron & Elevator) **\$20.00**

MIXER CIRCUIT - (2 Types)

- Adjustable & Switch Selectable

Type AE - For Aileron & Elevator **\$39.95**

Type AR - For Aileron & Rudder **\$49.95**

NOTE: On Type AE Mixer, both Dual Rate and Mixer Controls can be used simultaneously on Channels 1 and 2.

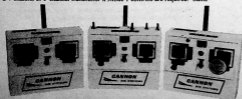


FIGURE 2. MODEL 910 TRANSMITTERS

IMPORTANT! FREQUENCY MATCHING

Bandwidth on these new CANNON IRC Receivers is so narrow that they require PRECISE frequency matching to the operating Transmitter. Although we offer these receivers separately and in Flite Packs, we can not guarantee proper receiver operation with Transmitters other than CANNON units unless your Tx is EXACTLY on frequency. We can determine this if you send your Tx to us when ordering a matching Rx or Flite Pack. If your Tx is on frequency, our Receiver will be tuned to match at no extra charge. If your Tx is out of tolerance (maximum 500 cycles) from correct frequency, we will recommend that you purchase a CANNON Tx to mate with our Rx, or have your Tx put on correct frequency by your Manufacturer, Dealer or Technician before Rx tuning.

If you purchase a Narrow Band Flite Pack without verifying your Tx frequency and properly matching it to our Rx, we accept no responsibility for correct match and trouble-free in-flight operation.

Tuning instructions will be supplied with each new Flite Pack but we offer no guarantee of perfect match if tuning or other adjustments are attempted outside our control.

MICRO-ELITE RECEIVER, MODEL ME920R5

The new NARROW BAND MICRO Receiver Model ME920R5 is supplied as standard in 2, 3, 4 or 5 channels. It is capable of 6 channels (on Special Order) to use with a 6-CH TX. If channel conversion is desired later, use \$20.00 as modification cost per channel added. RED or BLACK Micro plugs are standard with this unit, but Dean's or BLACK Micro plugs can be specified if desired, at no cost difference. No other plugs are available on this Rx.

This Receiver has single-tuned RF, a FET Balanced Mixer, dual AGC, narrow band Crystal Filter and simplified decoder with 6 channel capability. It has a short 24-inch antenna for installation ease in small aircraft. Even so, receiver range is the same as any full size receiver & therefore can be used in any size aircraft, even Quarter Scale, with appropriate servos and battery pack. Selectivity and electrical noise rejection are outstanding! IT'S A NATURAL FOR USE IN ELECTRIC AIRCRAFT!



FIGURE 3. MICRO-ELITE NARROW-BAND RECEIVER

MICRO-ELITE RECEIVER WEIGHTS & PRICES

ITEM	P/N	WT OZ.	MICRO GR.	WT OZ.	DEAN'S GR.	PRICE
2 CH	ME920R5(2)	.52	14.8	.55	15.5	\$90.95
3 CH	ME920R5(3)	.53	15.0	.56	15.9	\$94.50
4 CH	ME920R5(4)	.54	15.3	.57	16.3	\$97.95
5 CH	ME920R5(5)	.55	15.6	.58	16.5	\$101.50
6 CH	ME920R5(6)	.56	15.9	.59	16.7	\$105.00

Refer to figure 5 for additional data on Dimensions & Weights of MICRO-ELITE Receiver and CE-9D Servo.

Prices are the same for the Rx with either Micro or Dean's plugs. For Micro plugs specify type and color desired when ordering. IMPORTANT: Specify if unit are to be used with ACE/DEAN'S equipment.

CHARGE CONNECTOR TYPES



FIGURE 4. CONNECTOR IDENTIFICATION

The CANNON Micro plug is standard with 2 thru 6 channel Systems or Flite Packs using the MICRO-ELITE Rx. Plugs are ultra small (40% of 3-pin Dean's size and weight), have gold-plated contacts and are keyed to prevent incorrect plug-in. On MICRO-ELITE Rx, if specified, Dean's plugs can be supplied instead at no extra cost. All channel units come with Micro plug you specify or with standard CANNON/DEAN'S unless ACE/DEAN'S is requested. When ordering plugs separately, specify type needed; use letter designation to identify correct style when purchased separately and color (RED or BLACK) MICRO plug. Dean's plugs are \$1.50 each, Micro plugs are \$1.75 each. (No extra cost for either Dean's or Micro plugs in Flite Packs or Systems.)

MICRO-ELITE SERVO, MODEL CE-9D

DIMENSIONS SHOWN
IN INCHES AND MILLIMETERS,
WEIGHTS IN OUNCES AND GRAMS.

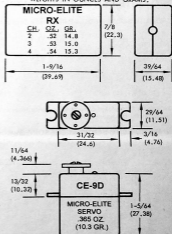


FIGURE 5. MICRO-ELITE RECEIVER AND SERVO DIMENSIONS (SHOWING ACTUAL SIZE)

This improved version of the CANNON MICRO-ELITE Servo now much stronger and faster, uses an isolating input capacitor, tiny but very efficient high speed coreless motor, and a new surface mount NE544D I.C. by Signetics for added speed and power.

Servo weight is now reduced to .365 oz. by using new surface mount amplifier and smaller motor. Servo is compatible with standard positive-



FIGURE 6. MICRO-ELITE SERVO, MODEL CE-9D

pulse receiver-decoders. Price includes choice of DEAN'S or Micro plugs. When ordering, BE SURE to specify plug type, ESPECIALLY whether Micro plug color should be BLACK or RED. See descriptive plug data, page 5. Order Micro plug color to match either older Systems (Black) or newer Narrow Band Models (RED). (Other type plugs are not available on CANNON EQUIPMENT)

CE-9 and CE-9B Servos (BLACK plug) are available in Standard rotation (unmarked) or reverse rotation (marked "R"). Specify desired type when ordering. New Model CE-9D Servos (RED plug) are available only in Standard rotation. Tx reversing switch can select rotation desired.

For those who need a light weight retract servo, we offer a 150 degree version designated CE-9D(RT). Specify plug Type and color (RED or BLACK). Price is \$58.95 with Standard Micro or Dean's plugs. (Specify if ACE/DEAN'S or CANNON/DEAN'S WIRING is required.)

MICRO-ELITE SERVO SPECIFICATIONS

MICRO-ELITE SERVO, MODEL CE-9D World's Smallest

Size.....	29/64 x 31/32 x 1-3/32 inches
Weight (Micro Plug).....	.365 OZ
Torque (Nominal).....	24 OZ-IN
Transit Time (100 degree).....	0.4 SEC
Centering Method.....	EXTERNAL
Static Drain.....	6 MA
Servo Price (CE-9D).....	\$54.95
Servo Price (CE-9D RT) 150 degree.....	\$58.95

NOTE: Servo usage is independent of equipment operating frequency or type of System transmission (AM or FM)

MICRO-ELITE SERVO ACCESSORIES



FIGURE 7. SUPER-MICRO R+3 MULTIPLE TRAY

R-3 SYSTEM TRAY (Figure 7). This adaptable tray accommodates any MICRO or MICRO-ELITE Receiver and three Servos in a single shock-mounted unit. In addition, tray is marked so that it may be cut apart to make a number of vertical tray configurations (Figure 8). Not supplied with System or Fine Pack; R-3 tray available separately - \$3.50.



FIGURE 8. SERVO TRAY CONFIGURATIONS

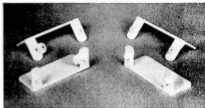


FIGURE 9. MICRO SERVO AILERON TRAYS

AILERON TRAY (Figure 9) Photo shows two versions of the Micro Servo Aileron Tray. One on the left is new for EITHER the MICRO-ELITE or ULTRA-MICRO Servo. Innermost mounting tabs fit the ULTRA-MICRO. To use with other Micro Servos the two innermost tabs must be cut off to allow for the longer CE-9 Servo body. Tray on the right will accommodate the MICRO-ELITE Servo and all earlier CE-9 Servo Models, without change. Part No. AT-100 (RH), AT-100B (LW) on left. Available Separately (Specify) - \$2.50 each.

SERVO MOUNTING PLATES (Figure 10) shows Servo Plate usage with all CE-9 Series Model Servos. Designed as light-weight mounts, these plates can be attached to wood rails in the aircraft, allowing servos to be mounted as in a standard single tray. Two are included with each servo. Priced separately, P/N SMP-100 (per pair) - \$.85.



FIGURE 10. SERVO MOUNTING PLATES AND OUTPUT ARMS

SERVO OUTPUT ARMS (Figure 10). One round and one straight arm come with each servo. Extra - \$.85 each. (Specify type required). The adjustable arm shown provides somewhat greater throw. Not supplied, available separately \$1.50. 50% longer straight arm is available - \$1.10.

RECEIVER NICAD BATTERIES

Small sizes offered are 50, 75, 110 and 270 mah, all in either square or inline packages. These are illustrated in Figures 11 and 12. All batteries are 4.8V and include a subminiature switch in the battery cable. A subminiature charge jack is mounted in the battery switch plate, as is a charge reducer resistor (or diode) as needed. This jack permits external charging of battery and removes need for a separate Charge Reducer or Adapter on Receiver batteries. Small Rx Battery Specs are listed below \$29.95 any size

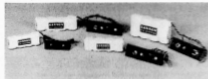


FIGURE 11. NICAD RECEIVER PACKS (INLINE)

RECEIVER BATTERY SPECIFICATIONS

NICAD INLINE RX PACKS (FIGURE 11) (\$29.95 EACH)

BATTERY	MICRO	PART NO. (PLUG TYPE)		WEIGHT
		DEAN'S	SIZE	
50 MAH	IB-50M	IB10D	13/32 x 19/32 x 1-5/8"	.64 OZ (18.3 GR)
75 MAH	IB-75M	IB75D	17/32 x 19/32 x 2"	1.0 OZ (28.35 GR)
110 MAH	IB-110M	IB110D	9/16 x 3/4 x 2.25"	1.27 OZ (36 GR)
270 MAH	IB-270M	IB270D	9/8 x 1-3/16 x 2.25"	2.1 OZ (60.2 GR)



FIGURE 12. NICAD RECEIVER PACKS (SQUARE)

NICAD SQUARE RX PACKS (FIGURE 12) (\$29.95 EACH)

BATTERY	MICRO	PART NO. (PLUG TYPE)		WEIGHT
		DEAN'S	SIZE	
50 MAH	SB-50M	SB-50D	19/32 HI x 13/16" SQ.	.63 OZ (17.1 GR)
75 MAH	SB-75M	SB-75D	19/32 HI x 1" SQ.	1.0 OZ (28.35 GR)
110 MAH	SB-110M	SB-110D	5/8 HI x 1-1/8" SQ.	1.27 OZ (36 GR)
270 MAH	SB-270M	SB-270D	1-1/4 HI x 1-1/8" SQ.	2.1 OZ (60.2 GR)

BATTERY FLIGHT LIFE

Everyone wonders how long small battery packs will last with CANNON Micro Systems. Expected Flight Life for various battery sizes and operating channels is charted below. These figures are based on fully charged batteries in A-1 condition, flight life derived from field experience.

BATTERY	EXPECTED FLIGHT LIFE (MINUTES)			
	2 CH	3 CH	4 CH	5 CH
50 mah	24	18	15	12
75 mah	36	26	18	16
110 mah	50	40	30	20
270 mah	150	120	90	60

SYSTEM CHARGERS

DUAL AC CHARGERS (Figure 13) A Dual Charger, with two charge indicator lamps, is supplied with Systems to charge Tx and Rx nicad batteries simultaneously or separately. Nominal charge rate is 40-50 ma except for 50, 75 and 110 mah cells whose charge rates are restricted by built-in charge limiters to prevent overcharge and coil damage. Earlier Chargers incorporate two phone plugs. Miniature size for Tx, Subminiature size for Rx. 1996 Charger 32CC-910 has 5.5 concentric Tx plug and Submin Rx phone plug.

Dual Charger, P/N 12CC-910 (120V)	Figure 13	\$18.95
Dual Charger, P/N 22CC-910 (220V)	Figure 13	\$20.95
Dual Charger, P/N 32CC-910 (120V)	Figure 14	\$18.95



FIGURE 13. DUAL CHARGERS AND FLITE PACK CHARGER

FLITE PACK CHARGER (Figure 13) P/N 4CA-910 (120V only) is available separately, if needed. Equipped with one miniature phone plug, unit charges 4-cell Rx nicad pack at 40-45 ma. Price \$12.95



FIGURE 14. 1996 DUAL CHARGER PN 32CC-910



FIGURE 15. MODEL AC-910 AUTO-CHARGER

AUTO CHARGER (Figure 15) P/N AC-910, equipped with one Sub-min. phone plug, works from automobile cigarette lighter socket and permits charging of 50, 75, 110 and 270 mah Rx battery packs at field in 15 minutes max. Price \$16.95



FIGURE 16. CHARGE PLUGS, SOCKETS
CHARGE PLUGS AND SOCKETS

Plug/Socket combinations used for charging CANNON Receivers and Transmitters are shown in Figure 16 & Listed below.

Submin audio plug PSM-1 attaches to Charger lead to Receiver Battery.

Submin Socket SSM-1 attaches to Rx Battery. Price \$1.50 EA.

Miniature audio plug PM-2 attaches to Transmitter Charger lead.

Miniature Socket SM-2 mounts on front of Tx Case. Price \$1.50 EA.

Concentric charge plug PCC-3 attaches to Transmitter Charger lead.

Concentric Socket SCC-3 mounts on front of Transmitter. Price \$2.25 EA.

MICRO-ELITE FLITE PACKS

New NARROW BAND MICRO-ELITE Flite Packs, available separately, are compatible with practically all standard AM R/C transmitters on the Market today, PROVIDING the Tx is ON FREQUENCY! See note, page 5, regarding Frequency Matching.

Flite Packs include all components which are to be installed in the aircraft, glider or other vehicle, namely, Receiver, Servos and Nicad Rx Battery of your choice (please specify). Transmitter, Tx Antenna, Frequency Plug and Charger are not included. However, a Flite Pack Charger is available separately, if needed. (See page 7).

NARROW-BAND MICRO-ELITE FLITE PACK PRICES

ITEM	PART NUMBER	PRICE
2 CH., 3 SERVOS	ME920FP-22	\$200.95
3 CH., 3 SERVOS	ME920FP-33	\$239.95
4 CH., 4 SERVOS	ME920FP-44	\$281.95
5 CH., 4 SERVOS	ME920FP-54	\$288.95
6 CH., 4 SERVOS	ME920FP-64	\$294.95

Deduct \$15.00 for omission of one CE-9D Servo from Flite Pack. If a second item is omitted from Flite Pack, calculate total cost on individual unit prices, not Flite Pack prices. Pricing, Page 2. Extra Std. Servo \$54.95



FIGURE 17. MICRO-ELITE FLITE PACK

MICRO-ELITE FLITE PACK WEIGHTS

Weights listed below include new Narrow Band MICRO-ELITE Rx, 50 mah Rx nicads, Micro plugs and one CE-9D Servo per Channel.

2 CH. - 1.87 OZ. (53.0 GR)	3 CH. - 2.24 OZ. (63.5 GR)	4 CH. - 2.62 OZ. (74.3 GR)
5 CH. - 2.63 OZ. (74.6 GR)	6 CH. - 2.64 OZ. (74.8 GR)	

Add .36 oz. (10.2 gr) to above Flite Pack Weights for 75 mah pack, .65 oz. (18.4 gr) for 110 mah pack, 1.49 oz. (42.2 gr) for 270 mah pack. Add .03 oz. (.85 gr) to above Weights for each DEAN's plug.

FREQUENCIES AVAILABLE

All R/C Systems, Flite Packs, Transmitters and Receivers are available on the 72 MHz frequencies listed below at prices quoted herein. If equipment is desired on any other frequency band, inquire before ordering, and add \$38.00 to these prices for complete Systems, \$15.80 for Flite Packs or individual Tx or Rx. BOTH EVEN AND ODD NUMBERED CHANNELS NOW AVAILABLE ON BOTH BANDS.

BAND SPECIFIC FREQUENCIES

F-50	MHZ	(0010 800, 011 820, 021 840, 031 860, 041 880, 051 900, 061 920, 071 940, 081 960)
F-51	MHZ	13.1, 15.2, 17.3, 19.4, 21.5, 23.6, 25.7, 27.8
G-72	MHZ	CHANNELS (1172 800, 12172 050, 13172 050, ETC. (I/O BAND)) (THESE PLUS ALL CHANNELS UP TO AND INCLUDING (3072 530). NOTE THAT CHANNEL SPACING IS 20 KHZ AND ALL ODD AND EVEN FREQUENCIES ARE INCLUDED. CHANNEL NO. AND FREQUENCY CAN BE DETERMINED BY CHART OR BY COUNTING 20 KHZ SPACINGS TO GET RELATED CH. NUMBERS.
H-72	MHZ	72 720, 72 760, 72 800, 72 840 (CANADA ONLY).
I-72	MHZ	CHANNELS (1872 530, 1972 530, 1872 530, ETC. THESE PLUS ALL CHANNELS TO AND INCLUDING CHANNEL (1972 530). CHANNEL SPACING IS 20 KHZ. ALL ODD AND EVEN FREQUENCIES ARE INCLUDED. CHANNEL NO. & FREQUENCY CAN BE DETERMINED AS EXPLAINED IN G-72 Mhz LISTING.
K-75	MHZ	(6275 430, 6475 470, 6675 510, 6875 550, 7075 590, 7275 630, 7475 670, 7675 710, 7875 750)

PARENTHESES DENOTES CHANNEL NO. FOR FREQUENCIES. BANDS E, F, G, J, & K LEGAL IN U.S.A. OTHER BANDS ARE FOR FOREIGN COUNTRIES. FREQUENCIES 72 080, 72 160, 72 240, 72 320, 72 400, 72 500 & 75 640 NOT LEGAL IN U.S.A. POSSIBLY USED IN CANADA.

NO OPERATOR'S LICENSE REQUIRED FOR BANDS G, J, I & K. BANDS E & F REQUIRE FCC AMATEUR LICENSE. BANDS C & A ARE FOR AIRCRAFT & GLIDER USE ONLY. BAND K FOR SURFACE USE.

NOTE: LOW BAND CHANNELS 1 THRU 36 ARE ASSIGNED TO NARROW BAND EQUIPMENT ONLY. HI BAND CHANNELS 36 THRU 39 MAY BE EITHER WIDE OR NARROW BAND EQUIPMENT. NARROW BAND TRANSMITTERS NOW MANDATORY ON BOTH LO AND HI BANDS.

ADDING CHANNELS (All Models)

Factory cost of adding channels is based on retail price DIFFERENCE between System channel counts BEFORE and AFTER conversion, plus \$35.00 for labor. If additional servos are desired they may be purchased separately. Conversion costs of Transmitter or Receiver are based on current hourly repair charges, plus parts. Add to this shipping, handling and any repair costs needed.

SCHEMATICS

Schematics for CANNON's older R/C Systems, as well as the new Narrow Band Systems are available for \$6.00 each set plus \$4.00 (in U.S.) shipping and handling. When ordering be sure and identify both Transmitter and Receiver by part number so correct schematics will be sent. If Part Numbers are questionable please send internal & external photos of equipment for identification. NO C.O.D.'S ARE ACCEPTED!



FIGURE 18. STAR-LITE NARROW BAND R/C SYSTEM

NEW STAR-LITE EQUIPMENT WORLD'S MOST VERSATILE R/C SYSTEM

CANNON now offers a new R/C System, the STAR-LITE, which could become a Universal Standard because of its application to ANY SIZE AIRCRAFT. The Receiver offers Small Size, Light Weight, Long Range, outstanding Selectivity and Narrow Band capability. Standard DEAN'S plugs on the Receiver permit use of a wide range of servos. No other plugs are offered.

With MICRO-ELITE Servos and small Rx batteries, total weight is so low that the MICRO-ELITE can be adapted to very small aircraft and gliders. This intermediate size servo (CE-15A STAR) is still light weight, and has sufficient speed and power to control large gliders and aircraft through 80 size. Because of high speed, high torque, and strong gearing the STAR Servo is particularly adaptable to Cars and Boats. And with its HIGHER POWER Servos, the sky is the limit as far as vehicle size and application are concerned!

Components of the STAR-LITE System include a Transmitter, Antenna, Frequency Flag, Receiver, appropriate number and type of Servos selected, and Rx Battery Pack of your choice. System is available in 2 through 5 channels, but the STAR Receiver offers up to 6 channels if ordered. This STAR System offers several Rx batt. sizes. All items are described below.

TRANSMITTER, MODEL 910

This unit is exactly the same as described previously under the MICRO-ELITE section of this Brochure (page 4). The Transmitter & other STAR-LITE units are shown in Figure 18.

DELUXE STAR-LITE SYSTEM PRICES

ITEM	PART NUMBER	PRICE
2 CH., 2 SERVOS	SL920-22	\$209.95
3 CH., 3 SERVOS	SL920-33	\$254.95
4 CH., 4 SERVOS	SL920-44	\$294.95
5 CH., 4 SERVOS	SL920-54	\$299.95

Prices based on Standard 72 Mhz frequencies. See Frequency Availability & Pricing on page 8. Shipping costs on page 2. System prices include Standard 910 Transmitter as described on page 4.

STAR-LITE RECEIVER

Although similar in circuitry and Narrow Band performance to the MICRO-ELITE Receiver, this Model SL920R STAR-LITE Receiver utilizes discrete standard size components, together with a small 16-pin decoder I.C. This configuration makes the receiver slightly larger and heavier than the Micro unit but less expensive. Also, it is easier to work on should this ever become necessary.

DEAN'S 3-pin plugs, on cables, are standard with this Receiver, all Servos and Rx Batteries. No other plugs are offered. A technical description of the Rx circuit is basically the same as for the MICRO-ELITE Rx on page 5. The STAR-LITE Receiver measures 1 1/16" thick x 1-11/32" wide x 1-9/16" long. Weights are shown on Receiver prices schedule below.

STAR-LITE RECEIVER WEIGHTS & PRICES

ITEM	PART NO.	WEIGHT (DEAN'S PLUGS ONLY)		PRICE
		OUNCE	GRAMS	
2 CH	SL920R(S)2	.99	28.0	\$66.95
3 CH	SL920R(S)3	1.00	28.3	\$69.95
4 CH	SL920R(S)4	1.01	28.6	\$72.95
5 CH	SL920R(S)5	1.02	28.9	\$75.00
6 CH	SL920R(S)6	1.03	29.2	\$77.95

DIMENSIONS SHOWN
IN INCHES AND MILLIMETERS,
WEIGHTS IN OUNCES AND GRAMS.

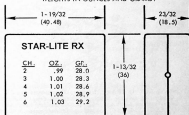


FIGURE 19. STAR-LITE RECEIVER DIMENSIONS & WEIGHTS



FIGURE 20. STAR-LITE RECEIVER, EXTERNAL VIEW

STAR-LITE SERVO, MODEL CE-15A

Small, but light weight, fast and powerful, the STAR Servo completely fills the needs of the average R/C flyer. It is small and light enough to fit in small aircraft, yet fast & powerful with enough "muscle" to control large models. Dimensions & Data are listed on page 10.

The STAR Servo uses a high speed motor, optimum gear reduction, and high strength gear material to provide a tough, outstanding and powerful mechanism.



FIGURE 21. STAR SERVO, MODEL CE-15A

CE-15A STAR SERVO SPECIFICATIONS

Size	3/4 x 1-5/32 x 1-1/2 inches
Weight	0.9 oz. (25.5 grams)
Torque (Nominal)	30 oz-in
Transit Time (100 degrees)	0.3 Sec.
Centering Method	External, Screwdriver
Static Drain	6 mg
Servo Price (CE-15)	\$39.95
Retract Servo CE-15 (RT) 170 degrees	\$42.95

STAR SERVO ACCESSORIES

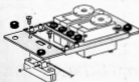


FIGURE 22. UNIVERSAL SERVO TRAY

UNIVERSAL SERVO TRAY This Servo Tray accepts two CE-15A Servos side-by-side and one across. Double-sided design also accepts other servos such as D&R and ACE. Bantam Midgel, Kraft KPS-12, CANNON CE-3, CE-4, CE-5, standard size Durban servos & Charlie's Servos, plus ON-OFF Switch. Mtg. hardware included-P/N UST-1 \$3.50

CE-15 TRAYS		
CE-15H	Single Horizontal (Afters) Mount.....	\$.90
CE-15V	Single Vertical Mount.....	\$.90
CE-15M2	Dual Vertical Mount, side-by-side.....	\$.90
CE-15M3	Triple Vertical Mount, side-by-side.....	\$1.00

CE-15 SERVO ARMS		
CE-15T	Triangular Arm.....	\$1.00
CE-15S	Long Straight Arm.....	\$1.00

If you order trays or servo arms separately, add sales tax, if applicable, plus \$2.50 Shipping & Handling.

DESIGN CONCEPT FOR THE CANNON 1996 ULTRA-MICRO SYSTEM

DESIGN CONCEPT

Our intention always has been to design and produce the smallest and lightest full-functional R/C Systems within the practical constraints of today's electronic state-of-the-art and equipment costs.

Systems should offer up to five channels, allow full proportional operation of all flight controls, and retain performance capabilities of larger R/C Systems. This includes narrow band compliance, full operating range and adherence to AMA design specs. All this had to be accomplished sacrificing ONLY size and weight!

Equipment had to be small and light enough to allow indoor, as well as Outdoor applications in tiny aircraft, glides or other vehicles.

All of the above goals have been accomplished in the CANNON ULTRA-MICRO R/C System. To cite one example, see the CANNON

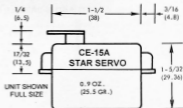


FIGURE 23. STAR SERVO DIMENSIONS & WEIGHTS

STAR-LITE RECEIVER NICAD BATTERIES

Batteries supplied with STAR-LITE Systems and Flite Packs are the same 75, 110 and 270 mah packs used on the MICRO-ELITE Systems, but come only with DEAN's plugs (Figs 11 & 12) page 7. Any size \$29.95

SYSTEM CHARGERS

System Chargers for the STAR-LITE equipment are exactly the same as that used on the MICRO-ELITE System. Chargers 12CC-910 and 12CC-910 are \$18.95, CE-910 \$12.95, and Auto-Charger AC-910 \$14.95.

STAR-LITE FLITE PACKS

STAR-LITE Narrow Band Flite Packs are also available for use with other make transmitters, subject to Frequency Matching qualifications outlined on page 5 for MICRO-ELITE Systems.

Flite Packs include all components which are to be installed in the aircraft, glider or other vehicle: namely, Receiver, Servo and Nicad Rx Battery of your choice (please specify). Transmitter, Tx Antenna, Frequency Plug and Charger are not included. However, a Flite Pack Charger is available separately, if needed. (See page 7)

STAR-LITE FLITE PACK PRICES

ITEM	PART NUMBER	PRICE
2 CH., 2 SERVOS	SL920FP-22	\$182.95
3 CH., 3 SERVOS	SL920FP-33	\$179.95
4 CH., 4 SERVOS	SL920FP-44	\$201.95
4 CH., 4 SERVOS	SL920FP-54	\$205.95
4 CH., 4 SERVOS	SL920FP-64	\$209.95

Additional CE-15A STAR Servos - \$39.95 (each)

Deduct \$12.00 for omission of any one STAR servo from Flite Pack. If a second servo is omitted from Flite Pack, calculate your total cost on individual unit prices, not Flite Pack prices.

STAR-LITE FLITE PACK WEIGHTS

Weights listed below include a new Narrow Band STAR-LITE Receiver, 110 mah Rx Nicads and ONE CE-15A STAR-LITE SERVO (With DEAN's) per channel.

2 CH - 4.05 OZ. (115.1 GR.)	3 CH - 4.97 OZ. (140.9 GR.)	4 CH - 5.88 OZ. (166.7 GR.)
	3 CH - 5.89 OZ. (167 GR.)	6 CH - 5.9 OZ. (167.3 GR.)

Deduct .24 oz (6.8 gr) from above Flite Pack Weights if using 75 mah pack. ADD .83 oz (23.5 gr) if using 270 mah batt instead of 110 mah.

PRACTICAL ULTRA-MICRO SYSTEM APPLICATIONS

Flite Pack Weight Chart, page 12. The lightest proportional Flite Pack (one channel) would be 1.35 oz. (38.3 gr.) A complete 4 channel Flite Pack (w/3 more servos) would be 2.38 oz. (67.47 gr.). THAT IS LIGHT !!

With R/C Equipment this small and light there are virtually no limitations to possible usages. To mention only a few, ULTRA-MICRO was designed with indoor flying of small Rubber, CO2 and Electric Models in mind. Servo power has exceeded our expectations so they have outdoor capability of being used in Small Powered Aircraft, up to 10 size engines, with spans up to 48". Also in Glides to 60" span, Rocket Assisted Gliders, Free-Flight Return, for SAM Contesters, Small Robots, Miniature R/C Cars, Small Helicopters, plus any other usage you can imagine.

INTRODUCING THE CANNON 1996 ULTRA-MICRO SYSTEMS

THE R/C MODELER'S "DREAM COME TRUE"

Rumors have been rampant for more than two years about a new, even smaller R/C System being developed by Cannon R/C. We must admit this project has been in the works for longer than we like to remember, but has at long last become a reality.

Equipment has been thoroughly tested, is now in Production and deliveries are currently being made. Sorry, but the Cannon Ultra-Micro R/C System is not available for immediate delivery. More about this later.

A need for this Super-Small Equipment was envisioned in 1991 and Bill Cannon conducted an informal personal survey of owners of Cannon Radios at many Trade Shows throughout the U.S.

One question was asked of these Modelers: "WHAT IF" such equipment became a fact, would the individuals be interested in a tiny, fully proportional R/C System so small and light it could even be flown INDOORS in very small aircraft, Electric, CO₂, even Rubber Powered. To a man (several hundred were queried) EVERY ONE made the identical response: "IF YOU MAKE SUCH A SYSTEM I WANT THE VERY FIRST ONE, AND I DON'T CARE WHAT IT COSTS".

Enthusiasm was so great that Bill decided to undertake the project. But WHO was to get the first unit? Remember, this was still a gleam in the eye of the Designer (CANNON), but customers were so insistent about obtaining this "Dream Machine", even at some future unknown date, that it was decided to take Advance Orders with a \$50 NON-REFUNDABLE Deposit.

All customers had enough faith that the Deposit was no problem, even though there was no equipment design, no production schedule, no firm dates for even a prototype - only a Dream in the minds of all the people involved. As an aside, EVERY customer who evidenced interest gladly put his \$50 down without question. The only question EVER ASKED (over a period exceeding 3 years) was "when do you think I will get mine?" No uncertainty, just blind faithful trust.

Today, with HUNDREDS OF SYSTEMS ON ORDER, we are delivering what we promised as rapidly as possible - IN ORDER ROTATION by ORDER DATE. Although we started producing



FIGURE 24. ULTRA-MICRO SYSTEM (3-CHANNEL SHOWN)

equipment only recently, well over 250 systems are in our "Dreamer's" hands, and hundreds more on order!

I, Bill Cannon, must humbly thank these trusting Pioneers who took the gamble, put their faith in me, and are now able to do with models what they could only Dream of before.

Now that equipment is in the field and being seen in action, orders are actually increasing even though we have never formally advertised the CANNON ULTRA-MICRO R/C System! It has become so sought-after that we predict without a Reserved Order it will be very difficult to obtain.

1996 ULTRA-MICRO R/C SYSTEM DETAILS AND PRICES

EQUIPMENT FEATURES

ULTRA-MICRO EQUIPMENT IS NOW THE:

- World's Smallest and Lightest Fully Proportional NARROW BAND Equipment
- Total weight of 2-Channel Rx, one ULTRA-MICRO Servo, plus 89 mah rechargeable battery is 1.35 ounces! For 4-Channels add three more Servos (.99 OZ) = 2.30 OZ total!
- Hi-Power Transmitter Narrow-Banded, AMA Gold Stickered.
- Narrow Band Receiver with Double-Balanced Mixer input
- Receiver Voltage Requirements - 4.8 to 6V (Voltage Regulated)
- Smallest, Lightest Proportional Servo - .33 oz. complete with Amplifier, cable & plug. Powerful for their size.
- Surface Mount Technology used in Servo Amplifier
- Available as Complete Systems, Fine Packs, or Separate Discrete Receiver, Servos, or Batteries
- Fly indoors - virtually no application limit - Rubber, CO₂, Electric and Glow Engines (outdoors)
- Low Drain Circuitry for long flight life
- Optional Electronic Mixer in Transmitter
- Full Nicads, Tx & Rx, with Dual Charger for System
- Servo Reversing feature is Standard
- Dual Rates Available (Aileron and Elevator)

SYSTEM DESCRIPTION

CANNON now presents the new 1996 ULTRA-MICRO R/C SYSTEM. Now it is even lighter and smaller than the famed CANNON MICRO-ELITE System! However, it was designed for installations in smaller aircraft which require less servo power. SEE MICRO-ELITE AND ULTRA-MICRO COMPARISON CHART, page 12.

Each complete ULTRA-MICRO System consists of a Transmitter, Tx Antenna, Frequency Flag, Dual Charger, Discrete Receiver, Receiver Nicad Battery of your choice, specified quantity of ULTRA-MICRO Servos, Servo Mounting Plates and Aileron Tray (4 and 5 CH. only) Equipment is available in 2 thru 5 channels. Conversion up to 5 channels is possible - inquire as to current cost.

Unless customer specifies otherwise, the standard Rx Nicad pack that we recommend with an ULTRA-MICRO System (or Elite Pack) is listed below. However, the customer may specify any battery he chooses.

BATTERY RECOMMENDATIONS FOR CANNON R/C EQUIPMENT

In order to obtain a reasonable minimum amount of flight time out of your receiver nicads, we recommend the following battery sizes be ordered or used with these systems.*

2 Channel System	50 mah battery
3 Channel System	75 mah battery
4 Channel System	110 mah battery
5 Channel System	270 mah battery

*If lightest weight is the most important application in your flying, the next smaller size battery may be used with above listed Systems (except for 2 Channel System).

DETAILED DESCRIPTION

TRANSMITTER, MODEL 910

This unit is exactly the same as previously described under the Micro-Elite section of this Brochure - See page 4 for details and individual pricing.

ULTRA-MICRO RECEIVER, MODEL UM920RS

This new NARROW BAND ULTRA-MICRO Receiver is available as standard in 2, 3, 4 or 5 channels on **AM MODE ONLY!** Red Micro plugs (40% of size and weight of Dean's plugs) are standard with this unit, but Dean's or Black Micro plugs can be specified as desired at no cost difference. **NO OTHER PLUGS ARE AVAILABLE ON THIS ULTRA-MICRO EQUIPMENT.**



FIGURE 25. ULTRA-MICRO FLITE PACK

The 1996 ULTRA-MICRO Receiver has a single-tuned RF section, a dual FET, Dual Balanced Mixer, dual AGC, Narrow Band Crystal Filter and a simplified Decoder with 3 channel capability. It has a short 24 inch antenna for installation ease in small aircraft. Even so, range is the same as any full size receiver and therefore can be used in any size aircraft, even Quarter Scale, with appropriate servos and battery pack. Because of its new design and Dual Balanced Mixer, both Selectivity and Electrical Noise Rejection are outstanding!

NEW ULTRA-MICRO SERVO, MODEL UM-1

Now in production, the UM-1 is by far the World's SMALLEST and LIGHTEST R/C SERVO. Servo power is enough to handle 10 powered 48" Span aircraft with ease. Weights and other specifications follow.

RECEIVER NICAD BATTERIES

Available in 50, 75, 110 and 270 mah, these rechargeable units are described and priced on page 7 of this Brochure. Customer may choose any battery size he needs with System, Flite Pack or separately.



FIGURE 26. NARROW-BAND ULTRA-MICRO RECEIVER

MICRO-ELITE & ULTRA-MICRO COMPARISONS

To select the best System for your needs, MICRO-ELITE units, somewhat heavier but with more powerful servos than the ULTRA-MICRO, are suitable for the following usages:

- 36" to 72" Airframes and engines from 049/061 to 60 power.
- Gliders to 100 inch Span.
- Pylon Racers

ULTRA-MICRO Units, lighter weight, smaller servos, best adapt to:

- Airframes 12" to 48", engines from CO2 and small Electric (10 to 010, 020, 049 and .10 2-cycle engines).
- Gliders to 60 inch Span.
- All indoor R/C Models, CO2, Rubber or Electric.
- Free-flight return, SAM and smaller airframes.

All components of MICRO-ELITE and ULTRA-MICRO Systems are compatible and interchangeable within power application limitations: TX, RX, Servos, Batteries, Accessory Items, etc.

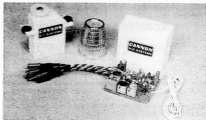


FIGURE 27. ULTRA-MICRO RECEIVER, SERVO (COMPARISONS)

ULTRA-MICRO SERVO SPECIFICATIONS

MODEL UM-1 ULTRA-MICRO SERVO NOW WORLD'S SMALLEST!

Size.....	3/16" W x 1-5/16" H x 27/32" L G
Weight (w/amp, cable & micro plug).....	.33 OZ. (9.35 GR.)
Torque (nominal).....	14 OZ. IN.
Transit Time (90 degrees).....	.1 SEC
Centering Method.....	INTERNAL
Static Drain.....	8 MA
Servo Price.....	\$59.95

ULTRA-MICRO SPECIFICATIONS AND PRICING DELUXE ULTRA-MICRO SYSTEM

ITEM	PART NUMBER	PRICE
2 CH, 2 SERVOS	UM920-22	\$281.95
3 CH, 3 SERVOS	UM920-33	\$335.95
4 CH, 4 SERVOS	UM920-44	\$388.95
5 CH, 4 SERVOS	UM920-54	\$396.50

*ULTRA-MICRO FLITE PACKS, WEIGHTS & PRICES

ITEM	PART NUMBER	WEIGHT	PRICE
2 CH, 2 SERVOS	UM920FP-22	1.68 OZ (47.63 GR)	\$209.95
3 CH, 3 SERVOS	UM920FP-33	2.03 OZ (57.55 GR)	\$251.95
4 CH, 4 SERVOS	UM920FP-44	2.38 OZ (67.47 GR)	\$298.95
5 CH, 4 SERVOS	UM920FP-54	2.40 OZ (68.04 GR)	\$302.95

*Based on UM Receiver w/cases, Micro Plugs & cables, 50 mah Batt & Switch Harness, and designated quantity of Servos. Deduct 13 Oz (3.64 GR) if Rx case is removed.

ULTRA-MICRO RECEIVERS, WEIGHTS & PRICES

ITEM	PART NUMBER	WEIGHT	PRICE
2 CHANNEL	UM920R(S)2	40 OZ (11.3 GR)	\$ 93.95
3 CHANNEL	UM920R(S)3	42 OZ (11.9 GR)	\$ 97.50
4 CHANNEL	UM920R(S)4	44 OZ (12.5 GR)	\$100.95
5 CHANNEL	UM920R(S)5	46 OZ (13.0 GR)	\$104.95

ULTRA-MICRO RESERVATION IS SUGGESTED

Since the ULTRA-MICRO Program started hundreds of customers advanced deposits for this System. Current backlog may take 4-6 months to fill present Orders! Meanwhile after others see the ULTRA-MICRO System orders will increase and delivery dates will lengthen!

The Quickest (and only way at present) to procure this Ultra-Micro is to place an order ASAP complete with a NON-REFUNDABLE \$50 Deposit. Orders are shipped in rotation; you will be notified when yours is upcoming along with an Order Blank requesting payment balance, your unit will go into work, then shipped.

An alternate choice is the MICRO-ELITE SYSTEM (about 4-6 weeks). An ULTRA-MICRO FLITE PACK ordered at the same time will come later and will match Elite Tx perfectly. Many CUSTOMERS do this!

Should anything befall this program, making delivery impossible, deposit will be refunded. NON-CANCELLABLE OTHERWISE!

PRODUCT REVIEW

ARTICLE REPRINT
BY PERMISSION OF
MODEL AIRPLANE
NEWS - THANKS

Cannon Ultra-Micro R/C System

Cannon's smallest, most advanced system yet.

by JOE WAGNER

back in 1991. His goal was not only to make an R/C system that would be smaller and lighter than his world-famous Super-Micro R/C equipment, but also to meet the new narrow-band tuning requirements of the FCC's "1991 Standard." (Though pre-1991 Cannon transmitters can qualify for "gold stickers," the Super-Micro receiver wasn't quite capable of being converted to the post-1991 20kHz frequency spacing.)

A NEW LOADED CANNON

Cannon's Ultra-Micro system is only available in AM, and its receiver and servos are in separate housings. Its transmitter, which is inside a white plastic case that won't become scorchingly hot in the sun, resembles Cannon's earlier transmitters, but it has servo-reversing switches. Single-stick dual rates

Though only 1/4 the size of most R/C transmitters, Cannon's is equally powerful. Its smallness and light weight make it easy to hold. (The 3-channel transmitter is shown.)

THE LONG WAIT is over at last: Bill Cannon's new, super-light Ultra-Micro R/C System is in production!

Cannon* began working on this system



The complete 3-channel Ultra-Micro airborne package easily fits inside a 2-ounce baby-food jar. Coincidentally, it weighs precisely 2 ounces.

and mixing are also available for an additional cost.

The Ultra-Micro receiver features what Cannon calls "Dual-Balanced Mixer

Think Small

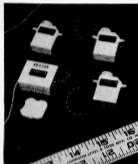
This little Wiley Post biplane is a great vehicle for the new Cannon Ultra-Micro R/C. Powered by a P.A.W. .03 diesel engine, the 2-foot biplane has throttle, rudder and elevator control.



For those who aren't familiar with the potential uses for Cannon's super-fly, very light, proportional R/C system, I'd have the most fun flying it in a nearly scale, 2-foot-span biplane with a wing area of around 180 square inches and a

ready-to-fly weight of about 10 ounces. Powered by a P.A.W. .03 diesel with rudder, elevator, and throttle controls, this little two-winger is a terrific stunter that's capable of vertical climbs, too!

PHOTO BY JOE WAGNER



A complete 3-channel Ultra-Micro Night pack. Smaller and lighter than Cannon's famous earlier Super-Micro equipment, this new R/C system has more features and better performance.

Input", he tells me that this improves RF noise rejection of electric motors. I especially like the thin, flexible, 24-inch-long antenna. It's easy to install in the minuscule models the Ultra-Micro system was designed to control.

To check the effectiveness of this short antenna, I set up the new Cannon system in an open field, on a plastic "crate" just far enough off the ground so that the hanging antenna didn't touch it. With my collapsed transmitter antenna pointing directly at the receiver, the Ultra-Micro system provided glitch-free control up to 170 feet away. Reliable range in the air will be at least 10 times that. I'm convinced that the Ultra-Micro system can control any of my mini R/C airplanes to the limits of visibility.

The Cannon Ultra-Micro receiver idle current is 25mA. Depending on the friction and air resistance it has to overcome in moving its control surface, each servo normally draws between 85 and 100mA while in motion.

With a draw this low, a 50mAh Ni-Cd pack capacity is more than adequate for two consecutive 15-minute aerobicic



You can see how amazingly small the ultra-Micro servo is by comparing it to a thumbtack. A new gearing system makes this one of the fastest-response R/C servos on the market.

flights. Anyway, I routinely fast-charge my radio batteries at the field (via an Ace R/C fast field charger) and can fly my Ultra-Micro system all day by recharging the receiver pack after every other flight.

IT'S WORTH THE PRICE

Some fliers have told me that they object to the system's price. Including the shipping charges, a complete Cannon 3-channel Ultra-Micro R/C system comes to almost \$350. When you buy any Cannon product, however, you're getting what amounts to a custom-built unit. Cannon checks out every item and system he sells before he ships it.

Another noteworthy news item from Cannon: he has upgraded his well-known Super-Micro equipment. It's now called "Micro-Elite," and it fully meets the AMA's "gold sticker" requirements. A little larger and a trifle heavier than the Ultra-Micro system, the Micro-Elite costs a bit less.

SPECIFICATIONS

Receiver

- Dimensions—0.28x1.04x1.21 in. (plus the protruding "pigtails" for the servo and power connectors).
- Weight—0.41 oz. (2 channels); 0.5 oz. for each additional channel up to a maximum of five channels and a weight of 0.47 oz.

Servos

- Dimensions—0.44x1.21 in.; 1.35 in. overall height.
- Weight—0.30 oz. (each).

Battery Packs

- Weight—0.61 oz. (50mAh); 1.25 oz. (110mAh); and 2.12 oz. (275mAh); square and flat packs available.

Comments:

My new Ultra-Micro 3-channel airborne package, including a switch harness, a charge connector and a 50mAh Ni-Cd pack, weighs only 2 ounces, and it fits comfortably inside a 2-ounce baby-food jar.

WILEY POST BIPLANE PLANS

Plans for 24" Wiley Post Biplane pictured in this article available from:

BILL NORTHPROP'S PLANS SERVICE
2019 Doral Ct, Henderson, NV 89014

Price \$5.00 (Includes Shipping/Handling) Biplane Plans show Rubber Power, but is easily adapted to Electric. 03 Diesel or other small glow engines. MICRO SYSTEM RECOMMENDED FOR R/C.

Extensive Plans Catalog - \$1.00

MISCELLANEOUS R/C PARTS

CAPACITORS

Standard disc (round)		.85
Submin disc (round)	State	.85
Mono caps, submin	Value	1.50
Dip tantalum caps, radial	Req'd	2.00
Tantalum caps, axial		2.00
Electrolytic, axial or radial		1.25

Values & sizes available are same as those used in Cannon R/C Units. Specify for Tx or Rx when ordering.

LABELS

Servo Label	1.25
Receiver Label	1.25
Rx FCC Label	1.60
Tx Label	3.25
Tx FCC Label	2.75
Tx Gold Sticker Label	1.50

RECEIVER CASES

Super-Micro, Micro-Elite (2 parts)	6.00
Ultra-Micro (2 parts)	7.00
Super-Nova (2 parts)	6.00
Star-Lite (2 parts)	6.00

RESISTORS

1/4 W, 5% Resistors	Specify	.40
1/8 W, 5% Resistors	Standard	.85
1/2 W, 68 Ohm	Values	1.25

1/8 & 1/4W Resistors available from 3.3 ohms to 980K, values as used in Cannon R/C Units.

SERVO PARTS

Super-Micro Case (2 parts)	6.50
Micro-Elite Case (2 parts)	6.50
Servo Gears for above EA.	1.25
Servo Gear SETS (6 Gears)	7.00
Ultra-Micro Case (2 parts)	7.50
Servo Gear for UM EA.	1.35
Servo Gear SETS (6 Gears)	7.50
Servo Wheels (All above Servos)	.90
Straight Arm, Std. (All Models)	.90
Longer Straight Arm (All Models)	1.10
Adjustable Arm (3 Parts) All Models	1.35
Servo Wiper Assy (Specify Servo)	3.50
Servo Pot (1K) (Specify Servo)	4.75
Servo Motors - Turn cordless	23.50
10mm cordless	20.00
Servo Amp w/wires (Surface Mt.)	
All Micro, Ultra-Micro Servos	24.50

PARTS AND ACCESSORIES LIST FOR CANNON R/C EQUIPMENT

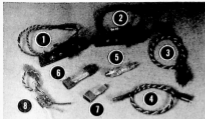


FIGURE 28. CABLES, CHARGE ADAPTERS, SERVO AMP

* Add \$2.00 for Plugs BOTH ends. For all Cables, Reducers and Adapters be sure to specify exact plug color and type and CANNON or ACE Wiring to DEAN'S PLUGS. Specify cable types, colors, lengths, plug info, etc.

NS = NOT SHOWN IN PICTURE

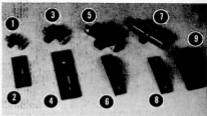


FIGURE 29. TX & RX SWITCHES & PLATES

ITEM	DESCRIPTION	PART NO.	PRICE
1	Batt Cable, Plug one end, Ext. Chge. Rec., Switch, Plate, Diode (270 MA Batt)		* \$10.00
2	Batt Cable, Plug one end, Ext. Chge. Rec., Switch, Plate, Resistor (75, 100 MA Batts)		* 10.00
3,4	Alderon Extension Cables, 9' (Plugs BOTH Ends) 12"		8.50
			11.50
NS	"V" SERVO CABLES to 12" (3 Plugs) to 24"		12.50
5	Charge Reducer (w/resistor) for 50 MA Batt		16.50
6	Charge Reducer (w/resistor) old Style, 75, 110 Batt		5.50
7	Charge Adapter, no resistor, for all Batts		4.50
8	Servo Amp w/wires (For all MICRO and ULTRA-MICRO Servos)		24.50
NS	Receiver Cables		
	MICRO-ELITE (2 3/4" LG.) EA.		5.00
	ULTRA-MICRO (Varies, Specify Channel) EA.		5.00
NS	Servo Cables		
	MICRO-ELITE (5-1/2" long) EA.		6.00
	ULTRA-MICRO (4-1/2" long) EA.		5.00

ITEM	DESCRIPTION	PART NO.	PRICE
1	Submin SPDT Rx Switch (Ultra-Micro)		\$2.00
2	Switch Plate for (1)		1.25
3	Miniature DPDT Rx Switch (STD)		2.75
4	Switch Plate for (3)		1.25
5	Cannon DPDT Tx ON-OFF Switch		3.50
6	Switch Plate for (5)		1.25
7	Noble 4PDT Tx (or Rx) Switch		4.00
8	Switch Plate for (7)		1.25
9	Cover for Noble Switch (7)		1.25
NS	Tx Dual Rate Switch, SPDT		3.75
NS	5th CH Toggle Switch, SPDT		3.75
NS	Mixer Switch, SPDT		3.75
NS	Servo Reversing Switch, DPDT		5.00

NS = NOT SHOWN IN PICTURE

COMPONENT PARTS

DESCRIPTION	PRICE
ANTENNAS	
TX - STD. 8 Section collapsible, 11/32" dia., 4-1/2" collapsed, 42" long	\$ 8.95
RX - STD. #29 Wire, 30" long	1.50
BATTERY CELLS (NICAD) - Sanyo, with solder tabs, hi charge rate, single cells only 50, 75, 110, 270, 450 or 600 mah - pg.511	4.25
CRYSTALS (Transmitter) Specify Frequency & Type	
27 Mhz, 3rd Overtone, wire leads	7.50
27 Mhz, 3rd Overtone, pin leads	8.50
50, 53, 72 Mhz, 5th Overtone, pin leads	12.00
CRYSTALS (Receiver) Specify	
Std. 27 Mhz, 3rd Overtone, wire leads	7.50
Std. 50, 53, 72 Mhz, 3rd Overtone, wire leads	11.50
Submin Micro, 50, 53, 72 Mhz, 3rd Overtone, wire leads	12.95
DIODES - IN4001, IN4148, IN750A (4.5V ZENER)	1.25
HARDWARE - All Screws, washers, grommets, nuts, etc. EACH	.20
LF TRANSFORMERS (455 KHz)	
7mm, std, yel, white, bk, EACH	3.50
5mm, submin, yel, bk, EACH	4.95
INTEGRATED CIRCUITS	
LM324N (Mixer, 14 pin), LM358N (Tx, 8 Pin), NE 544N (Servo, 14 Pin), NE544D (Servo, Surface Mt., 14 Pin), NE5044N (Tx, 16 Pin), NE5045N (Rx, 16 Pin), NE5045D (Rx, Surface Mt., 16 Pin), 74C95N (Old Rx, 14 Pin), 74C164N (Old Rx, 14 Pin), EACH	8.50

DESCRIPTION	PRICE
STICK ASSEMBLIES	
A. Single Axis, Open-Gimbal Stick, RH centering or LH ratchet, 5K pot, small face plate, chrome mask	21.50
B. Two Axis, Open-Gimbal Stick, RH, centering both axis, 5K pots, small face plate, chrome mask (Mode 2)	29.50
C. Two Axis, Open-Gimbal Stick, LH horizontal centering, vertical ratchet, 5K pots, small face plate, chrome mask (Mode 2)	29.50
Items B and C also available as Mode 1 Sticks, larger face plates optional - same price.	
D. Three-Axis, Open-Gimbal "Single Stick", with Rudder Knob, 5K pots, chrome mask, choice of face plates, chrome mask	41.50
E. Rudder Knob only, w/5K pot, choice of face plates, chrome mask	14.50
TRANSISTORS (Standard Size)	
Small Signal TO18 case, MPS2369, 2N3391, PN3563, PN3565, 2N4124, 2N6560, 2N6562 - EACH	2.50
Power output transistor, 4W, 2N2219A (TO5 case)	3.50
FET, 2N5457 or 2N5484 (TO18 case)	3.00
TRANSISTORS (Submin)	
MT3002 (YEL) NPN, MT4103 (WH) NPN, MT4102 (GRN) NPN, MT0404 (RED) PNP - EACH	3.50
WIRE	
NO. 26, Stranded, PVC, all Cannon colors	.25 ft.
NO. 26, Teflon, Red, Blk, Orange	.35 ft.
NO. 29, Stranded, PVC, all Cannon colors	.60 ft.

LIMITED WARRANTY

CANNON RADIO CONTROL SYSTEMS AND FLITE PACKS ARE WARRANTED TO THE ORIGINAL PURCHASER TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF 180 DAYS FROM DATE OF PURCHASE WHETHER IN USE OR NOT.

Warranty does not apply to damage or defects in CANNON equipment resulting from abuse, misuse, incorrect battery polarity, abnormal operation or crash damage. Warranty does not cover incidental or consequential damages resulting from or caused by equipment failure, pilot error, radio interference, or defects in material or workmanship. This Warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

Liability under this Warranty is limited to repair or replacement, without charge, of the defect or defective part at the Factory. Shipping and Handling charges are extra as are any other repairs. Any modification, alteration, tampering or attempted unauthorized repair of a CANNON System or Unit automatically voids the Warranty.

A valid Warranty is contingent upon Customer returning the registration card within 10 days of purchase date after receiving the equipment. To be activated, cards must be on file in the name of the individual to whom originally sold. CANNON R/C SYSTEMS, or their Representatives, assume no liability or responsibility for loss, damage or injury incurred or inflicted during operation of R/C Equipment or related devices.

REPAIR SERVICE

AUTHORIZED SERVICE CENTERS

A list of CANNON R/C SYSTEMS Authorized Service Stations is available upon request when accompanied by a SELF-ADDRESSED STAMPED ENVELOPE (S.A.S.E.) AFTER WARRANTY EXPIRATION please utilize the Service Center nearest you if possible. Both the Factory and Service Centers have experienced technicians, test equipment & technical information to insure proper service.

Service Centers are privately owned and operated. CANNON R/C SYSTEMS assumes no liability or responsibility for charges or services performed by these Centers.

WARRANTY REPAIRS

All Warranty Repairs to CANNON R/C and Charlie's Equipment are performed Only at the Factory in Henderson, NV. This gives the Factory full control over Product Quality which sometimes could result in Product Improvement.



ORDER BLANK

CANNON R/C SYSTEMS

2756 N GREEN VALLEY PARKWAY, SUITE 405
TEL (702) 896-7203

HENDERSON, NV 89014
FAX (702) 896-7206

DATE _____ ORDERED BY _____ ADDRESS _____
CITY _____ STATE _____ ZIP CODE _____ FAX () _____
5 DIGITS 4 DIGITS TEL () _____

QTY	DESCRIPTION	PART/MODEL NO.	FREQ.	PRICE	SUB-TOTAL

SPECIAL INSTRUCTIONS _____
SHIP BY: AIR P.P. _____ UPS GND _____ EQUIPMENT COST _____
UPS 2ND DAY AIR _____ OTHER _____ MC OR VISA NUMBER _____ SALES TAX _____
SHIP BY: AIR P.P. _____ SHIP & HANDLING _____
PAYMENT ENCLOSED _____ EXPIRATION DATE _____
CASH _____ CHECK NO. _____ M.O. _____ TOTAL \$ _____
C.O.D. (20% DEPOSIT REQ'D) _____ ADD SALES TAX IN NEVADA _____

IN CASE YOU MIGHT WISH TO ORDER OTHER ITEMS LATER FROM THIS BROCHURE, WE SUGGEST THAT IT WOULD BE HELPFUL TO COPY THIS ORDER BLANK SO YOU MAY RETAIN THE ORIGINAL FOR FUTURE ORDERS.